

wherein the segmenting the respective focal stack image based on color probability is further based on the selected focus frame.

5. A method according to claim 1 further comprising: classifying the plurality of super pixels as foreground or background.

6. A method according to claim 5 further comprising: shrinking segmentation mask consisting of multiple super pixels based on classification as background or foreground.

7. A method according to claim 5 further comprising: removing island pixels based on classification as background or foreground; and setting matting layers based on pixel classification as background or foreground.

8. An apparatus comprising a processor and a memory including computer program code, the memory and computer program code configured to, with the processor, cause the apparatus to:

receive a set of focal stack images;
group each of a plurality of pixels for which the focal measure was calculated into a plurality of super pixels;
calculate a focal measure for each of a plurality of the super pixels;
segment a respective focal stack image based on the focal measures of the plurality of super pixels;
calculate a color probability for respective super pixels;
and
segment the respective focal stack image based on the color probability of respective super pixels.

9. An apparatus according to claim 8 wherein the memory and computer program code are further configured to, with the processor, cause the apparatus to:

select a representative plurality of focal images from the set of focal stack images.

10. An apparatus according to claim 8 wherein the memory and computer program code are further configured to, with the processor, cause the apparatus to:

align the set of focal stack images.

11. An apparatus according to claim 8 wherein the memory and computer program code are further configured to, with the processor, cause the apparatus to:

receive a selection of a focus frame;
wherein the segmenting the respective focal stack image based on focal measure is further based on the selected focus frame; and

wherein the segmenting the respective focal stack image based on color probability is further based on the selected focus frame.

12. An apparatus according to claim 8 wherein the memory and computer program code are further configured to, with the processor, cause the apparatus to:

classify the plurality of super pixels as foreground or background.

13. An apparatus according to claim 12 wherein the memory and computer program code are further configured to, with the processor, cause the apparatus to:

shrink segmentation mask consisting of multiple super pixels based on classification as background or foreground.

14. An apparatus according to claim 12 wherein the memory and computer program code are further configured to, with the processor, cause the apparatus to:

remove island pixels based on classification as background or foreground; and

set matting layers based on pixel classification as background or foreground.

15. A computer program product comprising a non-transitory computer readable medium having program code portions stored thereon, the program code portions configured, upon execution to:

receive a set of focal stack images;
select a representative plurality of focal images from the set of focal stack images;
group each of a plurality of pixels for which the focal measure was calculated into a plurality of super pixels;
calculate a focal measure for each of a plurality of the super pixels;
segment a respective focal stack image based on the focal measures of the plurality of super pixels;
calculate a color probability for respective super pixels;
and
segment the respective focal stack image based on the color probability of respective super pixels.

16. A computer program product according to claim 15 wherein the program code portions are further configured, upon execution to align the set of focal stack images

17. A computer program product according to claim 15 wherein the program code portions are further configured, upon execution, to

receive a selection of a focus frame;
wherein the segmenting the respective focal stack image based on focal measure is further based on the selected focus frame; and

wherein the segmenting the respective focal stack image based on color probability is further based on the selected focus frame.

18. A computer program product according to claim 15 wherein the program code portions are further configured, upon execution, to

classify the plurality of super pixels as foreground or background.

19. A computer program product according to claim 18 wherein the program code portions are further configured, upon execution, to

shrink segmentation mask consisting of multiple super pixels based on classification as background or foreground.

20. A computer program product according to claim 18 wherein the program code portions are further configured, upon execution, to

remove island pixels based on classification as background or foreground; and

set matting layers based on pixel classification as background or foreground.

21. The method of claim 1 further comprising:
calculating a focal measure for each of a plurality of pixels of the set of focal stack images.

22. An apparatus according to claim 8 wherein the memory and computer program code are further configured to, with the processor, cause the apparatus to:

calculate a focal measure for each of a plurality of pixels of the set of focal stack images.

23. A computer program product according to claim 15 wherein the program code portions are further configured, upon execution, to

calculate a focal measure for each of a plurality of pixels of the set of focal stack images;

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